BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of work: Detailed Estimate for the Work of Improvements to Road and Drains at Vinayakanagara in Ward No.05, Byatarayanapura Sub Division

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
		Estimate Cost Rs.						3000000.00	
1	KSRB 2-1.1: Earth work in surface excavation in ordinary soil for leveling and lowering the ground manually (other than foundation of buildings, culverts, road drains and trenches of pipe line and cables) and removing the excavated stuff to a distance not exceeding 50m and lift upto 1.5m, excavated surface leveled and neatly dressed, disposed earth to be leveled after breaking of clods and neatly dressed as per specifications, Specification No KBS 2.1(a) / 2.3.1,P. No. 5/ Item No. 2.1/ PWD SR 2013-14	cum							
	Desilting of Drains								
	4th Main Nanasa House Road		1	25.00	0.40	0.30	3.00		
			2	80.00	0.40	0.25	16.00		
	3rd main Balance Road		2	200.00	0.40	0.25	40.00		
			2	80.00	0.40	0.25	16.00		
	Burm Cutting								
	4th Main Nanasa House Road		2	25.00	0.95	0.30	14.25		
			2	80.00	0.95	0.30	45.60		
	3rd main Balance Road		2	200.00	0.95	0.30	114.00		
			2	80.00	0.95	0.30	45.60		
							294.45	126.36	**37207.00**
	Basic Rate	117.00							
	Area Weightage @ 8%	9.36							
	Total	**126.36**							
2	KSRB 2-2.1 : earth work excavation for foundation of buildings, culverts water supply, sanitary line and electrical conduits either in pits or in trenches 1.5m and above in width, in **Hard soil** not exceeding 1.5m, in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m, after breaking of clods complete as per specifications, specification, No, KBS 2.1(a) / 2.3.5, No. 5/ Item No. 2.4/ PWD SR 2013-14	Cum							
	4th Main Nanasa House Road		1	25.00	0.75	0.75	14.06		
			1	80.00	0.75	0.75	45.00		
	For Culverts		4	6.50	1.80	1.05	49.14		
							108.20	227.88	**24657.00**
	Basic Rate	211.00							
	Area Weightage @ 8%	16.88							
	Total	**227.88**							
3	Removing B.S Slab of Drain and stacking Page No. 28/ Item No. 5.32/ PWD SR 20113-14	Sqm							
	3rd main Balance Road		2	200.00	1.35		540.00		
			2	80.00	1.35		216.00		
							756.00		

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	Deduct 20% Missing Slabs						151.20		
							604.80	50.11	**30308.00**
	Basic Rate	46.40							
	Area Weightage @ 8%	3.71							
	Total	**50.11**							
4	Refixing stone slabs of drains and pointing in C.M (1:3) Page No. 28/ Item No. 5.33/ PWD SR 2013-14	Sqm							
			Qty Vide Item No.3				604.80		
							604.80	**70.04**	**42359.00**
	Basic Rate	64.85							
	Area Weightage @ 8%	5.19							
	Total	**70.04**							
5	Providing granite slabs of selected quality roughly dressed and fixed in cement mortar(1:6) including fixing curing etc, complete -do- 7.5 cms thick Page No. 28/ Item No. 5.31.1/ PWD SR 2012-13	**Sqm**							
	For Missing slabs (25%)		Missing Slabs				151.20		
	4th Main Nanasa House Road		1	25.00	1.65		41.25		
			1	80.00	1.65		132.00		
							324.45	343.44	**111429.00**
	Basic Rate	318.00							
	Area Weightage @ 8%	25.44							
	Total	**343.44**							
6	KSRB-4-1.3 : Providing and laying in position **plain cement concrete of mix M 7.5** withOPC cement at 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @0.57cum machine mixed, concrete laid in layers not, exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1,4.2, No. 12/ Item No. 4.3/ PWD SR 2013-14	**Cum**							
	For Culverts		4	6.50	1.95	0.15	7.61		
							7.61	4290.84	**32632.00**
	Basic Rate	3973.00							
	Area Weightage @ 8%	317.84							
	Total	**4290.84**							
7	KSRB 5.2.3 Providing and constructing granite / trap / basalt Size stone masonry **in foundation** with cement mortar 1:6, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.KBS 5.1.13 Page No. 25/ Item No. 5.6/ PWD SR 2013-14	cum							
	For Culverts		4X2	6.50	0.60	0.45	14.04		
							14.04	3549.96	**49841.00**
	Basic Rate	3287.00							
	Area Weightage @ 8%	262.96							
	Total	**3549.96**							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
8	KSRB 5.3-3 Providing and constructing granite / trap / basalt size stone masonry **in sement** with cement mortar 1:6, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.KBS 5-1.13 Page No. 26/ Item No. 5.9/ PWD SR 2013-14	**Sqm**							
	For Culverts		4X2	6.50	0.50	0.45	11.70		
							11.70	**4227.12**	**49457.00**
	Basic Rate	3914.00							
	Area Weightage @ 8%	313.12							
	Total	**4227.12**							
9	KSRB 4-6.7 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for sides and soffits of beams, beam haunchings, cantilever girders, bressumers and lintels not exceeding 1 m in depth including cost of all materials, labour complete as per specifications. Specification NO KBS 4.6.2 Page No. 17/ Item No. 4.34/ PWD SR 2013-14	**Sqm**							
	For Culverts		4	6.50	0.60		15.60		
	For Sides		4X2	6.50	0.23		11.96		
			4X2	1.65	0.23		3.04		
							30.60	**244.08**	**7468.00**
	Basic Rate	**226.00**							
	Area Weightage @ 8%	18.08							
	Total	**244.08**							
10	KSRB 4-1.7 : : Providing and laying in position plain cement concrete of mix **M10** withOPC cement @ 220kgs, with 20mm and down size graded granite metal coarse aggregates @0.84cum and fine aggregates @0.56cum machine mixed, concrete laid in layers not, exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1,4.2/P No. 13/ Item No. 4.7/ PWD SR 2013-14	**cum**							
	For Culverts		4X2	6.50	0.50	0.10	2.60		
	Vent Bed		4	6.50	0.60	0.10	1.56		
							4.16	4737.96	**19710.00**
	Basic Rate	4387.00							
	Area Weightage @ 8%	350.96							
	Total	**4737.96**							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
11	KSRB 4.2.2 : Providing and laying in position plain cement concrete of mix **M20** withOPC ment @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.878cum and fine aggregates @0.459cum with superplastesisre @ 3lts conforming to IS9103-1999Reffirmed machine mixed exceeding 15cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, staircase, lintels, retaining walls, return walls, walls(any thickness) including attached plasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc, including cost of all materials, labour HOM of machinery, curing, complete as per specifications. Specification. No. KBS 4.1,4.6, **No. KBS 4.1,4.6, No. 13/ Item No. 4.11/ PWD SR 2013-14**	**Cum**							
	For Culverts		4	6.50	1.65	0.23	9.87		
							9.87	5639.76	**55648.00**
	Basic Rate	5222.00							
	Area Weightage @ 8%	417.76							
	Total	**5639.76**							
12	KSRB 4.9.2:providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost pf materials, labour, HOM of machinery complete as per specifications.Specification No. KBS 4.6.3 Page No. 19/ Item No. 4.46.1/ PWD SR 2013-14	**Qtl**							
	100 Kg/Cum		1.00	9.87			**9.87**	7380.72	**72826.00**
	Basic Rate	6834.00							
	Area Weightage @ 8%	546.72							
	Total	**7380.72**							
13	KSRB 15.1.3: Providing **FLush pointing** to coursed stone masonry with cement mortar 1:3, 20 mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications. Page No. 122/ Item No. 15.1/ PWD SR 2013-14	Sqm							
	For Culverts		4X2	6.50		0.50	26.00		
							26.00	79.92	**2078.00**
	Basic Rate	74.00							
	Area Weightage @ 8%	5.92							
	Total	**79.92**							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
14	Precast slab 20mm and down size for slab (including steel reinforcement) including centring and shutterng machine mixed concrete laid in layers not exceeding 15cms thick well compacted cost of all materials labour HOM of machineries curing complete as per specifications c.c 1:1.5:3 Including all cost of Matirial (DATA RATE ENCLOSED) 10cm thick RCC pre cast slab	Sqm							
	4th Main Road		1	195.00	0.90		175.50		
							175.50	1427.15	**250465.00**
	Data Rate	**1427.15**							
15	KSRRB M400-17: Providing, laying spreading and compacting graded stones aggregate to **wet mix macadam** specifications including premixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying, in uniform layers with paver in sub base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH specification NO. 406, No. 170/ Item No. 20.18/ PWD SR 2013-14	Cum							
	1st Main 4th Cross		1	78.00	6.00	0.18	84.24		
	1st Main 5th Cross		1	75.00	6.00	0.20	90.00		
	1st Main 6th Cross		1	75.00	6.00	0.20	90.00		
	4th Main Road		1	345.00	6.00	0.15	310.50		
	Cross Road		1	112.00	6.00	0.15	101.76		
							676.50	1121.04	**758384.00**
	Basic Rate	1038.00							
	Area Weightage @ 8%	83.04							
	Total	**1121.04**							
16	KSRRB 500-4: providing and applying **primer coat** from 7.5 to 9.8 kg and 9.8 to 12.2kg per 10 sqm for surfaces of low and medium porosity respectively over prepared surface of granular base with cut bank M.C-70 or any other bitumen mixed with diesel at 10 kg per 10 sqm heated in bitumen boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specificationsDo- Medium Porosity MORTH chapter 5, No. 175/ Item No. 21.4/ PWD SR 2013-14	Sqm							
	1st Main 4th Cross		1	78.00	6.00		468.00		
	1st Main 5th Cross		1	75.00	6.00		450.00		
	1st Main 6th Cross		1	75.00	6.00		450.00		
	4th Main Road		1	345.00	6.00		2070.00		
	Cross Road		1	112.00	6.00		672.00		
							4110.00	100.60	**413474.00**

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	Basic Rate	93.15							
	Area Weightage @ 8%	7.45							
	Total	**100.60**							
17	KSRRB M500-18: Providing and laying **semi dense bituminous concrete 25mm thick** with 100-120 TPH batch type HMP producing an average output of 75 tonnes per hour using crushed aggregates of specified grading, premixed with bituminous binder at 4.5 to 5% of mix and filler, transporting the hot mix to work site, laying with a hydrostatic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem roller to achieve the desired compaction as per MORTH specifications clause No. 500.8 complete in all respects as per specifications. P. No. 174/ Item No. 21.20/ PWD SR 2013-14	Cum							
	4th Main Nanasa House Road		1	25.00	6.00	0.025	3.75		
			1	80.00	6.00	0.025	12.00		
	3rd main Balance Road		1	200.00	6.00	0.025	30.00		
			1	80.00	6.00	0.025	12.00		
			1	300.00	6.00	0.025	45.00		
							102.75	9631.44	**989630.00**
	Basic Rate	8918.00							
	Area Weightage @ 8%	713.44							
	Total	**9631.44**							
18	Lead for Disposal of Debris shall be payable at carage rates by Mechanical means inlcuding loading and unloading. From 0.00 to 2.00 Km (Page No.123,	Cum							
			Qty. Vide Item No. 1+2				**402.65**		
							402.65	67.32	**27107.00**
	Basic Rate Lead Charges Upto 2.00 Kms	5.12							
	PWD SR 2010-11 (P.118/I.17.1) For loading	62.20							
	Total	**67.32**							
19	For 1% Third Party Charges								**20000.00**
20	Miscesallaneous Charges	L/S							**5320.00**
								Total	**3000000.00**

(Rupees Thirty Lakhs Only)

ADMINISTRATIVELY SANCTIONED FOR Rs. 30.00L
Rupees Thirty Lakhs only
Under Ho village grants
Registered as EE ( ) No. ... 9....
Subject to conditions contained in
enclosed memo EE ( ) No. ... /9....
Dt. ... Estimate Approved
Order (4) BS 1.621/13-14
dated 23.12.13 Rs 30.00L
ಉಪಕ ಆಯುಕ್ತರು
Joint Commissioner
(Yelahanka Zone)
ಬಿಬಿಎಂಪಿ, ಬೆಂಗಳೂರು-92

CERTIFICATE

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per PWD SR of 2013-14
3 The provisions were made in this estimate are necessary and adequate.
4 This works come under B.B.M.P. limits.

Assistant Engineer
ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

Executive Engineer
Byatarayanapura Division.
Bruhat Bangalore Mahanagara Palike

Assistant Executive Engineer
ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿಬಿಎಂಪಿ, ಬೆಂಗಳೂರು-24

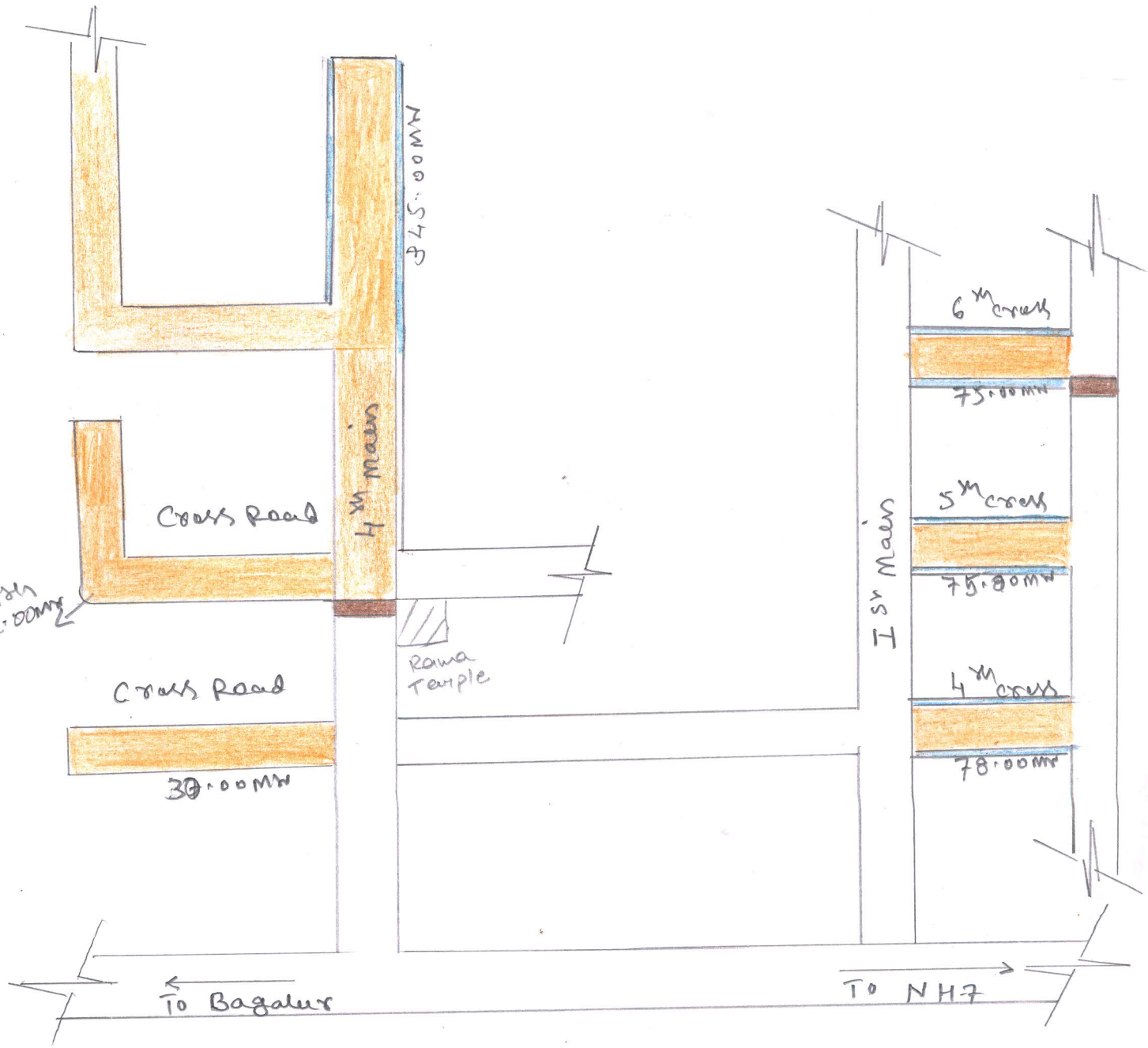
Technical sanction for Rs. 30.00 lakhs
Thirty Lakhs only

43/13/14

SE/TS/ 43/13-14 Dt: 23/12/13

Superintendent Engineer
SE (TTP Dte.)

Improvements to Road and Drains At Vinayaka-nagara in Ward No. 05 Byatarayanapura Sub Division.



- Asphalt work
- Culvert
- R.R. Slab Drain

AE-05